

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (canceled).

2. (currently amended) The protocol repeater of claim [[1]] 4, further comprising a memory to store configuration information corresponding to at least one device in the IEEE 1394-based network.

3. (canceled).

4. (currently amended) The protocol repeater of claim 3, further comprising A protocol repeater for allowing a remote device to access a network having devices coupled through an IEEE-1394 bus, comprising:

a modem connected to a telephone line to receive a request directed to a device in the IEEE 1394-based network from the remote device;

an interface connected to the IEEE 1394-based network;

a processor to receive the request from the modem and transmit the request to the IEEE 1394-based network via the interface using IEEE-1394 protocol, wherein the processor further receives requests from the interface and transmits the requests from the interface to a remote device via the modem; and

means for determining if a request packet from the interface is destined for a remote bus and if so, means for determining if the request packet is of a type which exceeds bandwidth capabilities of the modem, and if so rejecting the request packet.

5. (currently amended) The protocol repeater of claim [[3]] 4, further comprising wherein if the means for determining determines if that a request packet from the interface is destined for a remote bus and if so, then the means for determining also determines if the request packet from the interface is one of a read request packet, a write request packet and a lock request packet.

6. (currently amended) The protocol repeater of claim 3, further comprising A protocol repeater for allowing a remote device to access a network having devices coupled through an IEEE-1394 bus, comprising:

a modem connected to a telephone line to receive a request directed to a device in the IEEE 1394-based network from the remote device;

an interface connected to the IEEE 1394-based network;

a processor to receive the request from the modem and transmit the request to the IEEE 1394-based network via the interface using IEEE-1394 protocol, wherein the processor further receives requests from the interface and transmits the requests from the interface to a remote device via the modem; and

means for rejecting the request packet from the interface if the request packet comprises an isochronous request packet.

7. (currently amended) The protocol repeater of claim 5, further comprising means for transmitting the request packet from the interface to the remote device via the modem if the request packet comprises one of a read request packet, a write request packet and a lock request packet.

8. (canceled).

9. (currently amended) The protocol repeater of claim [[8]] 10, further comprising: a memory to store configuration information corresponding to at least one device in the IEEE 1394-based network.

10. (currently amended) The protocol repeater of claim 8, further comprising: A protocol repeater for allowing a remote device to access a network having devices coupled through an IEEE-1394 bus, comprising:

a modem means connected to a telephone line for receiving a request directed to a device in the IEEE-1394 network from the remote device;

an interface means connected to the IEEE 1394-based network;

a processor means for receiving the request from the modem means and transmitting the request to the IEEE 1394-based network via the interface means using IEEE-1394 protocol; and

means for ensuring that data transmitted over the telephone line does not exceed the bandwidth capabilities of the telephone line.

11. (currently amended) The protocol repeater of claim [[8]] 10, wherein the processor further receives requests from the interface and transmits the requests from the interface to a remote device via the modem.

12. (previously presented) The protocol repeater of claim 11, further comprising means for determining if a request packet from the interface is destined for a remote bus and if so, means for determining if the request packet from the interface one of a read request packet, a write request packet and a lock request packet.

13. (currently amended) The protocol repeater of claim 11, further comprising A protocol repeater for allowing a remote device to access a network having devices coupled through an IEEE-1394 bus, comprising:

a modem means connected to a telephone line for receiving a request directed to a device in the IEEE-1394 network from the remote device;

an interface means connected to the IEEE 1394-based network;

a processor means for receiving the request from the modem means and transmitting the request to the IEEE 1394-based network via the interface means using IEEE-1394 protocol, wherein the processor further receives requests from the interface and transmits the requests from the interface to a remote device via the modem; and

means for rejecting the request packet from the interface if the request packet comprises an isochronous request packet.

14. (previously presented) The protocol repeater of claim 12, further comprising means for transmitting the request packet from the interface to the remote device via the modem if the request packet comprises one of a read request packet, a write request packet and a lock request packet.

15. (canceled).

16. (currently amended) The method of claim [[15]] 18, further comprising receiving requests from the interface and transmitting the requests from the interface to a remote device via a modem.

17. (currently amended) The method of claim [[15]] 18, further comprising

determining if a request packet from the IEEE-1394 network is destined for a remote device and if so, determining if the request packet from the IEEE-1394 network is one of a read request packet, a write request packet and a lock request packet.

18. (currently amended) The method of claim 15, further comprising A method of employing a telephone line to connect a remote device to a network having devices coupled through an IEEE-1394 bus, comprising:

receiving an incoming telephone call from the remote device;
generating a bus reset of the IEEE-1394 bus in response to the telephone call;
receiving from the remote device a request directed to a device in the IEEE-1394 network;
transmitting the request to the IEEE-1394 network using IEEE-1394 protocols; and
rejecting the request packet from the IEEE-1394 network if the request packet comprises an isochronous request packet.

19. (previously presented) The method of claim 17, further comprising transmitting the request packet from the IEEE-1394 network to the remote device via a modem if the request packet comprises one of a read request packet, a write request packet and a lock request packet.

20. (previously presented) A method of coupling an IEEE-1394 bus to a remote device using a telephone line connection, comprising:
establishing a telephone line connection;
receiving a request packet from the IEEE-1394 bus directed to the remote device;
determining if the request packet from the IEEE-1394 network is one of an asynchronous request packet and an isochronous request packet;
rejecting the request packet from the IEEE-1394 network if the request packet comprises an isochronous request packet; and
transmitting the request packet from the IEEE-1394 network to the remote device via the telephone connection if the request packet comprises an asynchronous request packet.

21. (previously presented) The method of claim 20, wherein the asynchronous request packet comprises one of a read request packet, a write request packet and a lock request packet.

22. (previously presented) The method of claim 20, further comprising receiving requests from the remote device and transmitting the requests from the remote device to the IEEE-1394 network.